



# RXSOL

CHEMO PHARMA INTERNATIONAL

**RXSOL-19-1522-050**

Tri Sodium Phosphate TSP

## Material Safety Data Sheet (MSDS)

### 1. Product and Company Identification

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|              |                      |
|--------------|----------------------|
| Product Name | Tri Sodium Phosphate |
| Product Code | RXSOL-19-1522-050    |

#### Company Details:

**RX MARINE INTERNATIONAL**  
**105, A wing , BSEL , TECH PARK.**  
**VASHI ,NEW BOMBAY 400703 INDIA**

**Branch : Kandla, Mumbai, Chennai, Vizag, Kolkata, UAE, MUSCAT.**

|         |                                                        |
|---------|--------------------------------------------------------|
| Phone   | +91 22 27815540 / 41 / 42                              |
| Fax     | +91 22 2781 1318 :::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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| Component                               | CAS No     | EC No.    | Weight % | Classification                                                  |
|-----------------------------------------|------------|-----------|----------|-----------------------------------------------------------------|
| Tribasic sodium phosphate dodecahydrate | 10101-89-0 |           | >95      | Skin Irrit. 2 (H315)<br>Eye Irrit. 2 (H319)<br>STOT SE 3 (H335) |
| Trisodium phosphate                     | 7601-54-9  | 231-509-8 |          | Skin Irrit. 2 (H315)<br>Eye Irrit. 2 (H319)<br>STOT SE 3 (H335) |

### 3. Hazards Identification

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|                   |                                                                                                                  |
|-------------------|------------------------------------------------------------------------------------------------------------------|
| Signal Word       | Warning                                                                                                          |
| Hazard Statements | H315 - Causes skin irritation<br>H319 - Causes serious eye irritation<br>H335 - May cause respiratory irritation |
| Other hazards     | None known.                                                                                                      |

#### 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                                                                 | Move 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.                                            |
| Self-Protection of the First Aider                                         | Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. |
| Most important symptoms and effects                                        | None reasonably foreseeable.                                                                                                                     |
| Indication of any immediate medical attention and special treatment needed | Notes to Physician Treat symptomatically.                                                                                                        |

#### 5. Fire-fighting Measures

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|                                                               |                                                                                                                                                                                |
|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media                                  | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical, CO <sub>2</sub> , alcohol-resistant foam or water spray. |
| Extinguishing media which must not be used for safety reasons | No information available.                                                                                                                                                      |
| Special hazards arising from the substance or mixture         | Thermal decomposition can lead to release of irritating gases and vapors. Hazardous Combustion Products: Oxides of phosphorus, Sodium oxides.                                  |
| Advice for firefighters                                       | As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.                                         |

#### 6. Accidental Release Measures

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|                                                                 |                                                                                                                                  |
|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Ensure adequate ventilation. Use personal protective equipment. | Avoid dust formation.                                                                                                            |
| Environmental precautions                                       | Should not be released into the environment.                                                                                     |
| Methods for Containment and Clean Up                            | Sweep up or vacuum up spillage and collect in suitable container for disposal. Keep in suitable, closed containers for disposal. |
| Reference to other sections                                     | Refer to protective measures listed in Sections 8 and 13                                                                         |

## 7. Handling and Storage

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|                                                              |                                                                                                                                                                                                                                                                                           |
|--------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Precautions for safe handling                                | Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Avoid dust formation. Ensure adequate ventilation. Avoid ingestion and inhalation.                                                                                                                       |
| Hygiene Measures                                             | Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday. |
| Conditions for safe storage, including any incompatibilities | Keep containers tightly closed in a dry, cool and well-ventilated place.                                                                                                                                                                                                                  |
| Specific end use(s)                                          | Use in laboratories                                                                                                                                                                                                                                                                       |

## 8. Exposure controls and personal protection

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|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Exposure Guidelines                      | List source(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Biological limit values                  | This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Monitoring methods                       | BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust                                                                                                                                                                                                                                                                                                  |
| Derived No Effect Level (DNEL)           | No information available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Predicted No Effect Concentration (PNEC) | No information available.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Engineering Measures                     | Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location. Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source.                                                                                                                      |
| Personal protective equipment            | Eye Protection Goggles (European standard - EN 166) Hand Protection Protective gloves.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Skin and body protection                 | Long sleeved clothing Inspect gloves before use. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. Remove gloves with care avoiding skin contamination. |
| Respiratory Protection                   | When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Large scale/emergency use Use            | Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Recommended Filter type: Particulates filter conforming to EN 143                                                                                                                                                                                                                                                                                                                                                       |

|                                 |                                                                                                                                                                                                                                                                             |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Small scale/Laboratory use      | Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Recommended half mask:- Particle filtering: EN149:2001 When RPE is used a face piece Fit Test should be conducted |
| Environmental exposure controls | No information available.                                                                                                                                                                                                                                                   |



Gloves



Suit

## 9. Physical and chemical properties

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|                                        |                                                    |
|----------------------------------------|----------------------------------------------------|
| Physical State                         | Solid                                              |
| Appearance                             | White                                              |
| Odour                                  | Odorless                                           |
| Odour Threshold                        | No data available                                  |
| pH                                     | 11.8-12 1% aq. solution                            |
| Melting point/freezing point           | 75 °C / 167 °F                                     |
| Softening Point                        | No data available                                  |
| Boiling Point/Range                    | No data available                                  |
| Flash point                            | No data available                                  |
| Method                                 | No information available                           |
| Evaporation rate                       | No information available                           |
| Flammability (solid, gas)              | Upper No data available<br>Lower No data available |
| Vapour pressure                        | No information available                           |
| Vapour density                         | Not applicable Solid                               |
| Specific Gravity / Density             | 1.620                                              |
| Bulk Density                           | 900 kg/m <sup>3</sup>                              |
| Water Solubility                       | Soluble                                            |
| Solubility in other solvents           | Soluble in water                                   |
| Partition coefficient; n-octanol/water | No Data Available                                  |
| Autoignition Temperature               | No Data Available                                  |
| Decomposition Temperature              | >75 °C                                             |
| Viscosity                              | Not applicable Solid                               |
| Explosive Properties                   | No information available                           |
| Oxidizing Properties                   | No information available                           |

|                   |                    |
|-------------------|--------------------|
| Molecular Formula | Na3 O4 P . 12 H2 O |
| Molecular Weight  | 380.13             |

## 10. Stability and reactivity

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|                                    |                                                                                                                     |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Reactive Hazard                    | None known, based on information available                                                                          |
| Chemical stability                 | Stable under normal conditions.                                                                                     |
| Possibility of hazardous reactions | Hazardous Polymerization Hazardous polymerization does not occur. Hazardous Reactions None under normal processing. |
| Conditions to avoid                | Incompatible products. Excess heat. Avoid dust formation.                                                           |
| Incompatible materials             | Strong oxidizing agents.                                                                                            |
| Hazardous decomposition products   | Oxides of phosphorus. Sodium oxides.                                                                                |

## 11. Toxicological information

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|                                            |                                                                                                                                                                                                                                 |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| acute toxicity                             | Oral Based on available data, the classification criteria are not met<br>Dermal Based on available data, the classification criteria are not met<br>Inhalation Based on available data, the classification criteria are not met |
| Skin corrosion/irritation                  | Category 2 Based on available data, the classification criteria are not met                                                                                                                                                     |
| Serious eye damage/irritation              | Category 2 Based on available data, the classification criteria are not met                                                                                                                                                     |
| Respiratory or skin sensitization          | Respiratory Based on available data, the classification criteria are not met<br>Skin Based on available data, the classification criteria are not met                                                                           |
| Germ cell mutagenicity                     | Based on available data, the classification criteria are not met                                                                                                                                                                |
| Carcinogenicity                            | Based on available data, the classification criteria are not met                                                                                                                                                                |
| Reproductive toxicity                      | 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                          | Not applicable Solid                                                                                                                                                                                                            |
| Symptoms / effects, both acute and delayed | No information available                                                                                                                                                                                                        |

## 12. Ecological information

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|                               |                                                                                                                                                            |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Toxicity                      | Ecotoxicity effects Do not empty into drains.                                                                                                              |
| Persistence and degradability | Persistence Soluble in water, Persistence is unlikely, based on information available.<br>Degradability Not relevant for inorganic substances.             |
| Bioaccumulative potential     | Bioaccumulation is unlikely                                                                                                                                |
| Mobility in soil              | The product is water soluble, and may spread in water systems Will likely be mobile in the environment due to its water solubility. Highly mobile in soils |

|                                    |                                                                                                                                                                                                                                                                                                |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Results of PBT and vPvB assessment | No data available for assessment.                                                                                                                                                                                                                                                              |
| Other adverse effects              | Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors Persistent Organic Pollutant This product does not contain any known or suspected substance Ozone Depletion Potential This product does not contain any known or suspected substance |

### 13. Disposal considerations

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|                                       |                                                                                                                                                                        |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Waste from Residues / Unused Products | Waste is classified as hazardous. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations. |
| Contaminated Packaging                | Dispose of this container to hazardous or special waste collection point. European Waste Catalogue (EWC) According to the                                              |
| European Waste Catalogue              | Waste Codes are not product specific, but application specific.                                                                                                        |
| Other Information                     | Waste codes should be assigned by the user based on the application for which the product was used. Do not empty into drains.                                          |

### 14. Transport information

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|              |               |
|--------------|---------------|
| DOT          | Not regulated |
| TDG          | Not regulated |
| Hazard Class | Not regulated |
| IATA         | Not regulated |
| IMDG/IMO     | Not regulated |

### 15. Regulatory information

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|                                                                                                |                                                                                                     |
|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Safety, health and environmental regulations/legislation specific for the substance or mixture | Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment. |
| Chemical safety assessment                                                                     | A Chemical Safety Assessment/Report (CSA/CSR) has not been conducted                                |

### 16. Other information

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|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Other Information | <p>The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Rx Marine International has been advised of the possibility of such damages.</p> <p>DISCLAIMER OF LIABILITY :The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. 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.</p> |
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