

# Material Safety Data Sheet

Mono Sodium Phosphate MSP (RXSOL-68-3123-050)



## 1. Product and Company Identification

Product Name Mono Sodium Phosphate

Part Number RXSOL-68-3123-050

### Company Details:

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

Branch : Kandla, Mumbai , Chennai, Vizag, Kolkata, UAE , OMAN , CANADA and KENYA

Phone +91 22 20871200 - 1400

Fax +91 22 27612100 ::AOH :0091 9821214367

Email [mail@rxmarine.com](mailto:mail@rxmarine.com)

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

## 2. Composition / information on ingredients

| Chemical Name        | Cas No    | EC No     | Whight  | Formula                           |
|----------------------|-----------|-----------|---------|-----------------------------------|
| Monosodium phosphate | 7558-80-7 | 231-449-2 | = 100 % | H <sub>2</sub> NaO <sub>4</sub> P |

## 3. Hazards Identification

|                                            |                                                                                                                                                                                                                                      |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Signal Word                                | No data available                                                                                                                                                                                                                    |
| Hazard Statements                          | H224 Extremely flammable liquid and vapor. H340 May cause genetic defects. H350 May cause cancer. H304 May be fatal if swallowed and enters airways. H361fd Suspected of damaging fertility. Suspected of damaging the unborn child. |
| Precautionary statements                   | No data available                                                                                                                                                                                                                    |
| Classification of the substance or mixture | Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.                                                                                                                                                      |
| Supplemental Hazard Statements             | None                                                                                                                                                                                                                                 |
| Other hazards                              | This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.                                   |

## 4. First Aid Measures

|                                                            |                                                                                                                     |
|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| General advice                                             | None                                                                                                                |
| If inhaled                                                 | After inhalation: fresh air.                                                                                        |
| Eye Contact                                                | After eye contact: rinse out with plenty of water. Remove contact lenses.                                           |
| Swallowed                                                  | After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.                  |
| Skin Contact                                               | In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.             |
| Inhalation                                                 | Remove to fresh air. Get medical attention immediately if symptoms occur.                                           |
| Ingestion                                                  | Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.               |
| Most important symptoms and effects, both acute and delaye | The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11 |

Indication of any immediate medical attention and special treatment needed No data available

## 5. Fire-fighting Measures

|                                                       |                                                                                                                                                                |
|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media                          | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.                                                        |
| Unsuitable extinguishing media                        | For this substance/mixture no limitations of extinguishing agents are given.                                                                                   |
| Special hazards arising from the substance or mixture | Oxides of phosphorus Sodium oxides Not combustible. Ambient fire may liberate hazardous vapours.                                                               |
| Further information                                   | Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system. |
| Hazardous combustion products                         | None known.                                                                                                                                                    |
| Advice for firefighters                               | In the event of fire, wear self-contained breathing apparatus.                                                                                                 |
| Protective Equipment and Precautions for Firefighters | As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.                         |
| Specific Hazards Arising from the Chemical            | Has a fire-promoting effect due to the release of oxygen. Ambient fire may liberate hazardous vapours.                                                         |

## 6. Accidental Release Measures

|                                      |                                                                                                                                                                                                        |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions                 | Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.                       |
| Environmental Precaution             | Do not let product enter drains.                                                                                                                                                                       |
| Methods for containment and cleaning | Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts. |
| Reference to other sections          | For disposal see section 13.                                                                                                                                                                           |

## 7. Handling and Storage

|                                                 |                                                                                                                                                                |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Advice on protection against fire and explosion | Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.                                        |
| Precautions for safe handling                   | For precautions see section 2.2.                                                                                                                               |
| Incompatible materials                          | Keep away from alkalis, strong oxidizing agents and metals. Provide containment walls of adequate capacity to hold any accidental spills.                      |
| Storage class                                   | Storage class (TRGS 510): 13: Non Combustible Solids                                                                                                           |
| Hygiene measures                                | Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2. |
| Storage conditions                              | Tightly closed. Dry. Hygroscopic.                                                                                                                              |
| Specific end use(s)                             | Apart from the uses mentioned in section 1.2 no other specific uses are stipulated                                                                             |

## 8. Exposure controls and personal protection

|                      |                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Exposure Guidelines  | This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.                                                                                                                                                                                                                                                             |
| Engineering Measures | None under normal use conditions.                                                                                                                                                                                                                                                                                                                                                                         |
| Eye/face protection  | Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU). Safety glasses                                                                                                                                                                                                                                                             |
| Skin protection      | This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves. |
| Body Protection      | Flame retardant antistatic protective clothing.                                                                                                                                                                                                                                                                                                                                                           |

|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Respiratory protection            | Required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type P1 The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented. |
| Other Measure                     | Protection<br>Handle in accordance with good industrial hygiene and safety practice.                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Control of environmental exposure | Do not let product enter drains.                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## 9. Physical and chemical properties

|                                              |                              |
|----------------------------------------------|------------------------------|
| Physical state                               | Solid                        |
| Colour                                       | White                        |
| Odour                                        | No data available            |
| Odor Threshold                               | No information available     |
| pH                                           | 4,0 - 4,5 at 50 g/l at 25 °C |
| Melting Point                                | > 450 °C                     |
| Boiling point                                | No data available            |
| Flash point                                  | No data available            |
| Flammability (solid, gas)                    | No data available            |
| Explosive limits                             | No Data Available            |
| Upper/lower flammability or explosive limits | No data available            |
| Autoignition temperature                     | No data available            |
| Decomposition temperature                    | No data available            |
| Density                                      | No data available            |
| Vapor pressure                               | No data available            |
| Vapor Density                                | Not applicable               |
| Relative Density                             | 2.36 at 20 °C                |
| Specific Gravity                             | No information available     |
| Partition coefficient                        | No data available            |
| Explosive properties                         | No data available            |
| Solubility                                   | 50.2 g/l at 20 °C            |
| Ignition temperature                         | No information available.    |
| Particle characteristics                     | No data available            |

## 10. Stability and reactivity

|                                    |                                                                                         |
|------------------------------------|-----------------------------------------------------------------------------------------|
| Reactivity                         | No data available                                                                       |
| Stability                          | The product is chemically stable under standard ambient conditions (room temperature) . |
| Possibility of hazardous reactions | Violent reactions possible with: Strong acids                                           |
| Conditions to avoid                | Exposure to moisture.                                                                   |
| Incompatible materials             | No data available                                                                       |
| Hazardous decomposition products   | In the event of fire: see section 5                                                     |

## 11. Toxicological information

|                               |                                                                                                                                                                                                                                                    |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute toxicity                | LD50 Oral - Rat - female - > 2.000 mg/kg (OECD Test Guideline 420) LD50 Inhalation - Rat - male and female - 4 h - > 0,83 mg/l - dust/mist (OECD Test Guideline 403) LD50 Dermal - Rat - male and female - > 2.000 mg/kg (OECD Test Guideline 402) |
| Skin corrosion/irritation     | Skin - Rabbit Result: No skin irritation - 4 h (OECD Test Guideline 404)                                                                                                                                                                           |
| Serious eye damage/irritation | Eyes - Rabbit Result: No eye irritation Remarks: (ECHA)                                                                                                                                                                                            |

|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Respiratory or skin sensitization                | Local lymph node assay (LLNA) - Mouse Result: negative (OECD Test Guideline 429)                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Carcinogenicity                                  | No data available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Germ cell mutagenicity                           | Test Type: In vitro mammalian cell gene mutation test Test system: mouse lymphoma cells Metabolic activation: with and without metabolic activation Result: negative Remarks: (ECHA) Test Type: Micronucleus test Test system: Human lymphocytes Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 487 Result: negative                                                                                                                                                                                                |
| Reproductive toxicity                            | Suspected of damaging fertility. Suspected human reproductive toxicant Suspected of damaging the unborn child.                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Specific target organ toxicity - single exposure | No data available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Additional Information                           | The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. RTECS: WA1900000 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. No toxic effects are to be expected when the product is handled appropriately. Handle in accordance with good industrial hygiene and safety practice. |

## 12. Ecological information

|                                                     |                                                                                                                                                                                                                                                             |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Persistence and degradability                       | The methods for determining biodegradability are not applicable to inorganic substances.                                                                                                                                                                    |
| Bioaccumulative potential                           | No data available                                                                                                                                                                                                                                           |
| Toxicity to fish                                    | Semi-static test LC50 - Oncorhynchus mykiss (rainbow trout) - > 100 mg/l - 96 h (OECD Test Guideline 203)                                                                                                                                                   |
| Toxicity to daphnia and other aquatic invertebrates | Static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (OECD Test Guideline 202)                                                                                                                                                                 |
| Toxicity                                            | Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 1.520 mg/l - 96 h                                                                                                                                                                            |
| Toxicity to bacteria                                | Static test EC50 - activated sludge - > 1.000 mg/l - 3 h (OECD Test Guideline 209)                                                                                                                                                                          |
| Toxicity to algae                                   | Static test ErC50 - Desmodesmus subspicatus (green algae) - > 100 mg/l - 48 h (OECD Test Guideline 201)                                                                                                                                                     |
| Products Biodegradation                             | The methods for determining the biological degradability are not applicable to inorganic substances.                                                                                                                                                        |
| Mobility                                            | No information available.                                                                                                                                                                                                                                   |
| Results of PBT and vPvB assessment                  | This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.                                                          |
| Endocrine disrupting properties                     | The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. |
| Other adverse effects                               | Depending on the concentration, phosphates may contribute to the eutrophication of water supplies. Discharge into the environment must be avoided. .                                                                                                        |

## 13. Disposal considerations

|                         |                               |
|-------------------------|-------------------------------|
| Contaminated packaging  | Dispose of as unused product. |
| Waste e Disposal Method | No data available             |

## 14. Transport information

|                              |                                                                      |            |           |
|------------------------------|----------------------------------------------------------------------|------------|-----------|
| UN number                    | ADR/RID:-                                                            | IMDG:-     | IATA: -   |
| UN proper shipping name      | ADR/RID:-                                                            | IMDG:-     | IATA:-    |
| Transport hazard class(es)   | ADR/RID: -                                                           | MDG:       | IATA:     |
| Packaging group              | ADR/RID:                                                             | IMDG:      | IATA:     |
| Environmental hazards        | ADR/RID: - No                                                        | IMDG: - No | IATA: -No |
| Special precautions for user | No data available                                                    |            |           |
| Further information          | Not classified as dangerous in the meaning of transport regulations. |            |           |

## 15. Regulatory information

|                                                                                                |                                                                                                                                                                                                                 |
|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Safety, health and environmental regulations/legislation specific for the substance or mixture | This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.                                                                                                                |
| Other regulations                                                                              | Take note of Dir 94/33/EC on the protection of young people at work.                                                                                                                                            |
| Chemical Safety Assessment                                                                     | For this product a chemical safety assessment was not carried out                                                                                                                                               |
| Other regulations                                                                              | Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable. Take note of Dir 94/33/EC on the protection of young people at work. |

## 16. Other information

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 we 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><b>DISCLAIMER OF LIABILITY :</b> 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> |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|