Material Safety Data Sheet

Tri Sodium Phosphate TSP (RXSOL-19-1522-050)

1. Product and Company Identifaction

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

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / informationon ingredients

Component	CAS No	EC No.	Weight %	Classfication
Tribasic sodium phosphate dodecahydrate	10101-89-0		>95	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT SE 3 (H335)
Trisodium phosphate	7601-54-9	231-509-8		Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT SE 3 (H335)

3. Hazards Identification

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

4. First Aid Measures

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

Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical, CO 2 , 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

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

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

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

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
Evapouration rate	No information available

Flammability (solid, gas)	Upper No data available Lower No data available
Vapour pressure	No information available
Vapour density	Not applicable Solid
Specific Gravity / Density	1.620
Bulk Density	900 kg/m3
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

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

acute toxicity	Oral Based on available data, the classification criteria are not met Dermal Based on available data, the classification criteria are not met 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 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

Toxicity	Ecotoxicity effects Do not empty into drains.

Persistence and degradability	Persistence Soluble in water, Persistence is unlikely, based on information available. 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

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

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

15. Regulatory information

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

Other Information	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.