

**Safety Data Sheet**

Section 1: SUBSTANCE IDENTIFICATION AND SUPPLIER	
Product name:	Trisodium Phosphate (Anhydrous) 98% / Trisodium Phosphate(Dodecahydrate) 98%
Other Names:	Phosphoric acid trisodium salt, Phosphoric acid, trisodium salt, Sodium orthophosphate, Sodium tertiary phosphate, Tribasic sodium orthophosphate, Tribasic sodium phosphate, Trisodium orthophosphate
Chemical formula:	Na_3PO_4 / $\text{Na}_3\text{PO}_4 \cdot 12\text{H}_2\text{O}$
Recommended Use:	Industrial chemical, textiles, water treatment
Company Identification:	Kemcore International Limited
Address:	133 CONNAUGHT RD UNIT 703 ALLIANCE COMM BLDG, HONGKONG
Customer Centre:	
Section 2: HAZARD IDENTIFICATION	
Emergency Overview:	Harmful to aquatic life. May cause respiratory irritation. Causes severe skin burns and eye damage. Causes serious eye damage.
Potential Acute Health Effects	This product causes eye burns and may cause skin irritation. Inhalation of dust may cause coughing and sneezing. Inhalation may cause respiratory irritation. Ingestion of this product may cause severe nausea, vomiting, abdominal discomfort and burning sensation.
Routes of entry:	Inhalation, Skin, Eye, Ingestion/Oral
Target organs:	Skin, Eyes, Respiratory tract



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Skin contact:	May cause moderate skin burns. May cause severe irritation, especially if skin is moist or wet.	
Eye contact:	May cause eye burns. May cause permanent corneal injury. May cause severe eye irritation.	
Inhalation:	Material is irritating to mucous membranes and upper respiratory tract. Exposure can cause coughing, chest pains and difficulty breathing.	
Ingestion:	May cause burns of the mouth, throat and stomach. Aspiration in to the lungs may occur during ingestion or vomiting, resulting in lung injury.	
Chronic Exposure:	Repeated or prolonged exposure may cause respiratory system damage. Repeated or prolonged exposure may cause irritation of eyes and skin.	
Explanation of carcinogenicity:	This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens.	
Medical conditions aggravated by exposure:	Disorders of the lungs, Skin/Dermal	
Section 3: Composition Information		
INGREDIENT	CAS No.	CONTENT
Trisodium Phosphate Anhydrous	7601-54-9	98%
Trisodium Phosphate Hydrated	10101-89-0	98%
Water	7732-18-5	2%

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Section 4: FIRST AID MEASURES	
Inhalation:	Remove victim to fresh air. Give artificial respiration only if breathing has stopped. If breathing is difficult, give oxygen. Seek medical attention if difficulties persist.
Ingestion: a	Do not induce vomiting. Do not give anything by mouth to an unconscious person. Have conscious person drink several glasses of water or milk. Seek immediate medical attention.
Skin:	Remove contaminated clothing. Wash affected area with soap and water. Seek medical attention if irritation occurs or persists.
Eye:	Flush immediately with water for at least 20 minutes. Forcibly hold eyelids apart to ensure complete irrigation of eye tissue. Seek immediate medical attention if symptoms persist.
Advice to Doctor:	Provide general supportive measures and treat symptomatically.
Section 5: FIREFIGHTING MEASURES	
Flash Point:	Not applicable
Combustion Products:	Oxides of phosphorous.
Extinguishing Media:	Use methods for the surrounding fire and other materials involved in the fire.
Protective Equipment:	Firefighters should wear full protective clothing including self-contained breathing apparatus. If possible control runoff from fire control or dilution water to prevent environmental contamination.
HAZCHEM Code:	None allocated
Section 6: ACCIDENTAL RELEASE MEASURES	
Spills and Disposal:	Scoop up or vacuum spilled material and place in appropriate closed container. Flush area with water to remove any trace residue.

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Protective Clothing:	Small releases can be cleaned-up wearing gloves, goggles and suitable body protection
Environmental:	Runoff from fire control may cause pollution. Prevent material from entering public sewer system or any waterways.
Section 7: HANDLING AND STORAGE	
Handling:	Avoid direct or prolonged contact with skin and eyes. Avoid breathing dust. Do not ingest
Storage:	Store in a tightly closed container. Store in an area that is cool, dry, well -ventilated and isolated from all toxic and harmful substances.
Other Information:	
Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION	
Exposure Limits:	5 mg/m ³
Protective Equipment:	Wear safety glasses (or goggles). Use impervious gloves. If airborne concentration is high, use an appropriate respirator or dust mask. If airborne concentrations are above the applicable exposure limits, use NIOSH-approved respiratory protection. Have a safety shower or eye-wash fountain available.
Engineering Controls:	Ventilation must be sufficient to effectively remove and prevent buildup of dust or fumes that may be generated during handling or thermal processing. Use general ventilation and use local exhaust, where possible, in confined or enclosed spaces.
Hygiene Precautions:	Wash hands thoroughly after handling material. Do not eat, drink or smoke in work areas.
Section 9. PHYSICAL AND CHEMICAL PROPERTIES	
Appearance:	White crystals

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Odour:	Odourless
Specific Gravity:	1.62
Bulk Density:	0.9-1.1 g/ml dependent on grade
pH:	12
Solubility in Water:	12.5 g/100 g water at 20°C
Flash Point:	Not applicable
Melting Point:	1340°C
Other Information:	
Section 10: STABILITY AND REACTIVITY	
Stability:	Stable
Hazardous Decomposition Products:	Oxides of phosphorus and sodium
Conditions to Avoid:	Moisture.
Materials to Avoid:	Strong acids, magnesium metal
Section 11: TOXICOLOGICAL INFORMATION	
ERMA Classification:	6.1C (inhalation), 6.1E (oral and dermal), 8.1A, 8.2C, 8.3A
Ingestion:	No effect expected. Swallowing large amounts may cause illness.
Inhalation:	Severe irritant. Causes pain, choking, coughing, burning sensation. Can cause soreness.
Skin:	Irritant. May cause pain, redness, dermatitis. Not likely to be

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	absorbed in toxic amounts.
Eye:	Severe irritant. Causes pain and redness. Prolonged or repeated contact may cause mild burn.
Chronic Effects:	Prolonged or repeated eye and skin contact causes irritation. Injury to the esophagus from scarring may occur. Alkali exposures may necessitate irrigation for extended duration.
Other Information:	
Section 12: ECOLOGICAL INFORMATION	
ERMA Classification:	9.1D (crustacean)
Ecotoxicity:	Product can be dangerous to aquatic life in high concentrations as it will increase the pH of the aquatic environment.
Section 13: DISPOSAL INFORMATION	
Product Disposal:	Dispose of material in accordance with all federal, state and local regulations. State and Local regulations/restrictions are complex and may differ from Federal regulations. Responsibility for proper waste disposal is with the owner of the waste.
Container Disposal:	Send empty bags to sanitary landfill. Render other types of containers unuseable by puncturing or crushing and sanitary landfill unless prohibited by local regulations.
Section 14: TRANSPORT INFORMATION	
UN Number:	Not applicable
Proper Shipping Name:	Not applicable
DG Class:	Not applicable

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UN Packing Group:	Not applicable
Other Information:	
Section 15: REGULATORY INFORMATION	
<p>Labeling based on supplier's classification (Directive 67/548/EEC and UK CPL Regulations 1984)</p> <p>R36/38 - Irritating to eyes and skin.</p> <p>15.3 S37/39 - Wear suitable gloves and eye/face protection.</p>	
Section 16: OTHER INFORMATION	