

**MATERIAL SAFETY DATA SHEET**  
**TRISODIUM PHOSPHATE DODECAHYDRATE (TPD)**

**1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION**

Trade Name:	<b>Trisodium Phosphate Dodecahydrate (TPD)</b>
Molecular Formula	<b>Na<sub>3</sub>PO<sub>4</sub>.12H<sub>2</sub>O</b>
Molecular Weight	<b>380</b>
Product type and use:	Phosphate / Trisodium Phosphate Dodecahydrate can be used in products for the water treatment of industrial boilers, and water dispersants. Used in the paper manufacture, in the process of sugar purification is used as a buffer and emulsifier.
Company	<b>LGA Chemical Solutions, Inc.</b> 8930 Wurzbach Rd. Suite 240 San Antonio, TX 78240 Email: <a href="mailto:info@lgachemsol.com">info@lgachemsol.com</a>

**2. HAZARDOUS IDENTIFICATION**

**APPEARANCE AND ODOR**

Color:	White
Appearance:	Crystals
Odor:	Odorless

**STATEMENTS OF HAZARD**

Ingestion	May cause severe irritation to the digestive tract. It is necessary to decrease the alkalinity when is used for food.
Inhalation	May cause severe irritation to the respiratory tract.
Skin contact	May cause severe irritation and burns in a prolonged contact with the skin, causing redness to the contact area.
Contact with eyes	May cause irritation and burns. May cause transient corneal injury.

**3. COMPOSITION INFORMATION ON INGREDIENTS**

	CAS No.	Concentration (%)
Trisodium Phosphate Dodecahydrate	10101-89-0	≤98
Others		≥2

**4. HANDLING AND SAFETY**

Inhalation	Remove from area of contamination and get fresh air, if necessary administer oxygen. Do not use mouth to mouth method use respiratory medical device. OBTAIN MEDICAL ATTENTION.
Skin contact	Remove contaminated clothing and shoes. Wash the contaminated skin with soap and running water for at least 15 minutes. GET MEDICAL ATTENTION
Contact with eyes	Rinse with plenty of water for 15 minutes. Do NOT allow victim to rub eyes or keep eyes closed. OBTAIN MEDICAL ATTENTION IMMEDIATELY.
Ingestion	Rinse with running water, and then give to drink two or three glasses of potable water. Do not encourage vomiting. SEEK FOR MEDICAL EXAMINATION

IMMEDIATELY.

## 5. FIRE-FIGHTING MEASURES

Flammable Properties	TPD is not combustible but under fire conditions, toxic, corrosives fumes are emitted.
Extinguishing media	
- Suitable	Regular Foam, Carbon dioxide, water, regular dry chemical. Will not burn, use appropriate media for surrounding material
- Not suitable	None in particular
Specific protection of firefighters	Use suitable safety equipment; wear positive pressure self-contained breathing apparatus.

## 6. ACCIDENTAL RELEASE MEASURES

Personal Precaution	Wear appropriate chemical resistant clothing, chemical resistant gloves and safety goggles.
Clean up	DO NOT COME IN CONTACT WITH SPILLED MATERIALS
- On ground	Contaminated areas cannot be flush with water. Sweep or vacuum up the material, and place it in a disposal container. Residual material can be cleaned by washing with water and soap, collect all washes for disposal.
- On water	Inform the appropriate local authority
- On clothing or equipment	Separate contaminated clothes or equipment. Launder before reuse. Remove/Clean material from shoes and protective equipment.

## 7. HANDLING AND STORAGE

Handling	Keep container dry. Ensure all containers are labeled. Avoid skin and eye contact. Wear appropriate protective clothing
Store	Store in an appropriate container. Keep containers tightly closed when not in use. Store in an area that is cool, dry and well ventilated.

## 8. EXPOSURE CONTROLS/ PERSONAL PROTECCION

Engineering Controls	The working area and methods should be designed to prevent contact with the product.
Personal Protection	
- Eyes	Safety goggles with a faceshield.
- Protective clothing	Safety goggles, chemical resistant clothing.
- Gloves	Wear chemical resistant gloves.
Safety Station	Create equipment for eye rinsing and safety/quick-drench shower, and washing facilities in work area.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid Crystals
Color	White
Odor	Odorless
% P <sub>2</sub> O <sub>5</sub>	18 % min
% Na <sub>3</sub> PO <sub>4</sub>	40-42%
% Humidity (at 125°C)	48-52%
Melting Point	73-75°C
pH (solution 1%)	11.5-12.4
Specific Gravity	1.62-1.65 anhydrous

Vapor Density	Not Available
Flash Point	Not Applicable
Molecular Formula	Na <sub>3</sub> PO <sub>4</sub> ·12H <sub>2</sub> O
Molecular Weight	380

#### 10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions. Avoid extreme of temperature and humidity conditions
Conditions to avoid	Dusty environments and humidity conditions
Materials to avoid	Strong acids
Hazardous decomposition products	Thermal decomposition: Sodium monoxide
Hazardous Polymerization	Polymerization has not been reported

#### 11. TOXICOLOGICAL INFORMATION

Irritancy	Corrosive
Animal Toxicity Data	Not Available
Carcinogenicity	Not considered to carcinogenic by NTP, and OSHA
Mutagenicity	Not Available

#### 12. LOGICAL INFORMATION

Environmental Effects	Not Available
Toxic Irritation limit	Not Available
Algae	Not Available

Protozoa	Not Available
Mutagenicity	Not Available
Biodegradability	Not Available

**13. DISPOSAL CONSIDERATIONS**

Environmental Effects	Not Available
Toxic Irritation limit	Not Available
Algae	Not Available
Protozoa	Not Available
Mutagenicity	Not available
Biodegradability	Not Available

**14. DISPOSAL CONSIDERATIONS**

Waste Product Residues	Wash with water and soap, collect al washes for disposal.
Waste from contaminated packaging	Dispose in accordance with all federal, provincial/ or local regulations apply.

**15. TRANSPORT INFORMATION**

Dot Classification	Environmentally Hazardous Substance, Solid.
Special Provisions for Transportation	Not Available

**16. REGULATORY INFORMATION**

SARA Hazard Classification	Acute
CCRIS	Not Mutagenic

## 17. PRESENTATION

TPD is available in 1000kg Pallets (40 bags of 25kg each)

\*Special prices in bulk quantities

### Note.

The information in the Material Safety Data Sheet (MSDS) should be provided to all who will use, handle, store, transport, or otherwise be exposed to this product. Reasonable care has been taken in the preparation of this MSDS. The information in this MSDS is provided in good faith, based on experience using the product. However, no warranty is made as to the accuracy of and/or sufficiency of such information and/or suggestions or as to the product's merchantability or adequacy for any particular purpose, or that any suggested use will not infringe any patent. Nothing contained herein shall be construed as granting or extending any license under any patent. Buyer must determine for himself, by preliminary tests or otherwise, the suitability of this product for his purposes, including mixing with other products. There is no liability for the misuse of company product.

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