Material Safety Data Sheet (MSDS)

Product Name: Tri Sodium Orthophosphate Food Grade
MSDS Generate Date: 20-05-2017
Revision Date: 30-12-2024

Supplier:

Rawpharma Biz Pvt Ltd
1101- City Centre 2,
Science City Road,
Sola Ahmedabad Gujarat,
India - 380060.
Contact No.: +91 97272 88479
Email: info@rawpharmabiz.com
Website: www.rawpharmabiz.com

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1. Identification of the Substance/Preparation and Company

Product Name: Tri Sodium Orthophosphate Food Grade

Synonyms: Trisodium Phosphate, TSP, Sodium Phosphate Tribasic

Uses: Food additive, pH regulator, emulsifier, cleaning agent.

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2. Hazards Identification

- Not classified as hazardous under GHS for food-grade quality.
- May cause mild irritation to eyes and skin.
- Inhalation of dust may cause respiratory discomfort.
- Not flammable.

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3. Composition / Information on Ingredients

Chemical Name: Tri Sodium Orthophosphate (Food Grade)

CAS Number: 7601-54-9

Purity: ≥ 98% (Food Grade)

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4. First Aid Measures

Eye Contact: Rinse cautiously with water for several minutes. Seek medical attention if irritation persists.
Skin Contact: Wash skin with soap and water.
Inhalation: Move to fresh air; seek medical advice if breathing difficulty occurs.
Ingestion: Rinse mouth; drink water. Do not induce vomiting.

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5. Fire Fighting Measures

- Non-flammable.
- Use water spray, CO_2, or dry chemical for surrounding fire.
- No special protective equipment required beyond standard firefighting gear.

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6. Accidental Release Measures

- Avoid creating dust.
- Sweep up and place in suitable container.
- Wash area with water.

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7. Handling and Storage

Handling: Avoid dust inhalation; use in well-ventilated areas.
Storage: Store in cool, dry place in sealed containers. Keep away from moisture.

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8. Exposure Controls / Personal Protection

- **Respiratory Protection:** Dust mask if dust levels are high.
- **Eye Protection:** Safety goggles.
- **Skin Protection:** Gloves recommended.
- **Engineering Controls:** Adequate ventilation.

9. Physical and Chemical Properties

Appearance: White crystalline powder/granules

Odor: Odorless

Solubility: Soluble in water

pH (1% solution): Alkaline (approx. 11–12)

Melting Point: ~ 75–78°C (decomposes)

Boiling Point: Not applicable

Specific Gravity: ~ 1.62

10. Stability and Reactivity

Stability: Stable under normal storage conditions

Incompatible Materials: Acids, moisture

Hazardous Decomposition: Sodium oxide fumes under extreme heat

11. Toxicological Information

- **Oral Toxicity (LD50):** > 7400 mg/kg (rat) – low toxicity
- Mild irritant to eyes and respiratory tract
- No known carcinogenic effects

12. Ecological Information

- Low environmental hazard
- High solubility in water
- Large quantities may affect pH of water bodies

13. Disposal Considerations

- Dispose of in accordance with local regulations
- Do not release into natural water sources in large amounts

14. Transport Information (DETAILED)

Tri Sodium Orthophosphate Food Grade is **not classified as hazardous** for transportation.
Below is detailed transport guidance:

UN Number:

- Not applicable (Non-hazardous)

UN Proper Shipping Name:

- Not regulated for transport
- Ship as **"Tri Sodium Orthophosphate Food Grade"**

Transport Hazard Class:

- Not classified as a dangerous substance
- No special hazard class assigned

Packing Group:

- Not applicable

Label Requirements:

- No hazard label required
- Standard product labeling recommended (product name, batch, net weight)

Environmental Hazards:

- Not considered environmentally hazardous for transport
- Avoid contamination of water bodies in bulk

Transport in Bulk (IMDG/IMO):

- Not regulated
- Follow good industrial shipping practices

Special Precautions for Transport:

- Store away from moisture
- Ensure bags or containers are sealed properly
- Protect from physical damage

- Avoid loading with strong acids or corrosive materials

Regulatory Transport Information:

- **ADR/RID (Road/Rail):** Not regulated
- **IMDG (Sea):** Not regulated
- **IATA (Air):** Not regulated
- **DOT (USA):** Non-hazardous material

Overall Transport Classification:
→ Safe for transport by road, air, and sea with no special documentation required beyond standard commercial shipping papers.

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15. Regulatory Information

- Not classified under any hazardous chemical category.
- Complies with food-grade regulatory standards when applicable.

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16. Other Information

- This MSDS is issued for food-grade product use only.
- Information is believed accurate but without warranty; user must evaluate suitability.
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