

Material Safety Data Sheet (MSDS)

Product Name: Tri Calcium Phosphate Feed 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

1. Identification of the Substance/Preparation and of the Company

- **Product Name:** Tri Calcium Phosphate Feed Grade
 - **Synonyms:** TCP, Tricalcium Phosphate
 - **Chemical Formula:** $\text{Ca}_3(\text{PO}_4)_2$
 - **Intended Use:** Used as a nutritional supplement in animal feed as a source of calcium and phosphorus.
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2. Hazard Identification

- **Classification:** Not classified as hazardous according to GHS.
- **Physical Hazards:** None known.
- **Health Hazards:**

- Dust may cause mechanical irritation to eyes and respiratory tract.
 - Prolonged inhalation of dust may cause lung discomfort.
 - **Environmental Hazards:** Not expected to be hazardous to the environment.
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3. Composition / Information on Ingredients

- **Substance Name:** Tri Calcium Phosphate (Feed Grade)
 - **CAS Number:** 7758-87-4
 - **EINECS Number:** 231-840-8
 - **Purity:** Typically $\geq 95\%$
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4. First Aid Measures

- **Inhalation:** Move person to fresh air. Seek medical attention if irritation persists.
 - **Skin Contact:** Wash with water and soap. If irritation occurs, consult a physician.
 - **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present.
 - **Ingestion:** Rinse mouth with water. Non-toxic in small amounts. Seek medical advice if large quantities are ingested.
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5. Firefighting Measures

- **Suitable Extinguishing Media:** Use water spray, CO₂, dry chemical, or foam.
 - **Specific Hazards:** Non-combustible. Material may release irritating fumes of phosphorus oxides when heated to decomposition.
 - **Protective Equipment:** Wear protective clothing and self-contained breathing apparatus.
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6. Accidental Release Measures

- Avoid generating dust.
- Sweep up material and place in suitable container for disposal.
- Ventilate the area and wash spill site after material pick-up.
- Prevent large amounts from entering drains or waterways.

7. Handling and Storage

- **Handling:** Avoid breathing dust. Use in well-ventilated areas. Wear protective equipment.
- **Storage:** Store in a cool, dry, well-ventilated area away from moisture and acids.

8. Exposure Controls / Personal Protection

- **Occupational Exposure Limits:** No specific OEL established.
- **Engineering Controls:** Provide adequate ventilation.
- **Personal Protection:**
 - Respiratory: Dust mask (N95 or equivalent).
 - Eyes: Safety glasses with side shields.
 - Skin: Gloves and protective clothing if handling bulk material.

9. Physical and Chemical Properties

- **Appearance:** White crystalline powder
- **Odor:** Odorless
- **Solubility:** Practically insoluble in water
- **Molecular Weight:** 310.18 g/mol
- **pH (suspension):** ~6–8

- **Melting Point:** Decomposes above 1,670°C
 - **Density:** 3.14 g/cm³
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10. Stability and Reactivity

- **Stability:** Stable under normal conditions.
 - **Conditions to Avoid:** Moisture, strong acids.
 - **Incompatible Materials:** Strong acids (forms phosphoric acid and calcium salts).
 - **Hazardous Decomposition:** Phosphorus oxides when heated strongly.
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11. Toxicological Information

- **Acute Toxicity:** Non-toxic by ingestion at feed grade levels.
 - **Skin/Eye Irritation:** Dust may cause mild irritation.
 - **Chronic Effects:** No known chronic health effects under normal exposure.
 - **Carcinogenicity:** Not classified as carcinogen by IARC, OSHA, or ACGIH.
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12. Ecological Information

- **Ecotoxicity:** Not harmful to aquatic organisms at standard concentrations.
 - **Persistence & Degradability:** Inorganic substance, non-biodegradable.
 - **Mobility:** Low solubility, low mobility in soil and water.
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13. Disposal Considerations

- Dispose of material in accordance with local, regional, and national regulations.
 - Avoid release to sewers or natural water sources.
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14. Transport Information (Detailed)

- **UN Number:** Not applicable (non-hazardous for transport).
- **UN Proper Shipping Name:** Tri Calcium Phosphate
- **Transport Hazard Class:** Not classified as dangerous goods.
- **Packing Group:** Not assigned.
- **Environmental Hazards:** Not a marine pollutant.
- **Special Precautions:** Avoid dust formation during handling and transport.
- **Transport by Road (ADR/RID):** Not regulated.
- **Transport by Sea (IMDG):** Not regulated. No special labeling required.
- **Transport by Air (ICAO/IATA):** Not regulated. Safe for air shipment.
- **Bulk Transport (MARPOL/IBC):** Not applicable.
- **Additional Information:** Product is chemically stable and non-flammable. Transport in sealed, moisture-proof bags/containers to maintain quality.

15. Regulatory Information

- **India:** Not classified as hazardous under local regulations.
- **EU Regulation (EC 1272/2008 - CLP):** Not classified.
- **US OSHA (29 CFR 1910.1200):** Not hazardous.
- **Feed Additive Regulations:** Complies with feed-grade requirements when used as intended.

16. Other Information

- **References:** Internal test data, published scientific literature, ECHA database.
- **Disclaimer:** The information provided is believed to be accurate but is not exhaustive.

Users must ensure suitability for intended applications and compliance with applicable laws.

- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.