



Material Safety Data Sheet

Tricalcium Phosphate MSDS

1. SUBSTANCE IDENTIFICATION

- 1.1. Product Name: [Tricalcium Phosphate](#)
- 1.2. Description: Tricalcium Phosphate is a calcium salt of phosphoric acid manufactured through chemical synthesis.
- 1.3. Chemical Formula: $\text{Ca}_3\text{O}_8\text{P}_2$
- 1.4. Molecular weight: 310.18
- 1.5. CAS #: 7758-87-4
- 1.6. EINECS #: 231-840-8;233-283-6
- 1.7. Manufactured by: Foodchem International Corporation, Shanghai China.
- 1.8. Supplied by: Foodchem International Corporation, Shanghai China.
- 1.9. Usage: In food as nutrition supplements and anticaking agent

2. Composition

- 2.1. Tricalcium Phosphate: >99%
- 2.2. Hazardous impurities: As 0.0003 %, Pb 0.0002 %, MOLD < 50 CFU/G

3. Physical/Chemical Characteristics

- 3.1. Physical State: Powder
- 3.2. Appearance: WHITE POWDER
- 3.3. Odor: Odorless
- 3.4. pH: Not available
- 3.5. Melting point/range: Liquifies under high pressure at 1670 K (1391 ° C)
- 3.6. Boiling point: Not available
- 3.7. Bulk density: 3.14 g/cm³
- 3.8. Solubility: 0.002 g/100 g

4. Stability/Reactivity

- 4.1. Chemical Stability: Stable under normal temperatures and pressures
- 4.2. Shelf Life: 24 months period
- 4.3. Hazardous decomposition: Not Applicable
- 4.4. Hazardous polymerization: Will not occur
- 4.5. Incompatible with: Not available

5. Handling/Storage

- 5.1. Storage: Kept in dry, cool, and shaded place with original packaging, avoid moisture, store at room temperature.
- 5.2. Handling precaution: Avoid contamination of storage containers. Avoid breathing dusts.

6. Exposure Control

- 6.1. Engineering Controls: effectively minimize employee exposures: general area dilution
- 6.2. Respiratory protection: NIOSH/MSHA or European Standard EN 149 approved respirator
- 6.3. Eye Protection: Protective eyeglasses or chemical safety goggles
- 6.4. Skin Protection: Wear appropriate protective gloves and clothes to minimize skin contact.
- 6.5. Other: Consult professionals if Tricalcium Phosphate need to be handled under some special conditions.

7. Hazards Identification



- 7.1. Hazardous overview: Tricalcium Phosphate is Acute hazardous in case of inhalation, skin contact, ingestion or eye contact.
- 7.2. Contact with eyes: May cause skin irritation.
- 7.3. Contact with skin: May cause skin irritation.
- 7.4. Ingestion: Low acute oral toxicity. Ingestion of large quantities may cause abdominal pain, abdominal cramps, nausea, vomiting,
- 7.5. Inhalation: May cause respiratory tract irritation.
- 7.6. Other: This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens.

8. First Aid Measures

- 8.1. Contact with eyes: Flush immediately with plenty of water for 15 minutes and seek medical advice
- 8.2. Contact with skin: Wash the affected area with water, remove contaminated clothing and launder before re-use. Seek medical advice if irritation develops or persists.
- 8.3. Ingestion: Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband.
- 8.4. Inhalation: Remove from exposure, move to fresh air and seek medical advice immediately.

9. Fire and Explosion Data

- 9.1. General information: Non Combustible
- 9.2. Flash point: Not Applicable
- 9.3. Ignition control: Not applicable
- 9.4. Dust control: Keep the handling area with adequate ventilation
- 9.5. Extinguishing Media: Not Applicable
- 9.6. Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container

10. Transport Information

- 10.1. No special requirements and no restrictions on transportation by land, sea or air.

11. Ecological Information

- 11.1. Tricalcium Phosphate is not biodegradable, however the product itself will not affect environment.

12. Other Information

- 12.1. This Safety Data Sheet of Tricalcium Phosphate is based upon a limited review of Foodchem International Corporation files and standard Toxicological handbooks. 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 Foodchem International Corporation 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 Foodchem International Corporation has been advised of the possibility of such damages.

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