
Material Safety Data Sheet

Product Name	<u>Tricalcium phosphate</u>
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Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identification:**Product Description:** Tricalcium phosphate**Synonyms:** Calcium phosphate Tribasic, β -Tricalcium phosphate, Calcium orthophosphate, Calcium tertiary phosphate**CAS-No:** 7758-87-4**EC-No.:** 231-840-8**Molecular Formula:** $\text{Ca}_3\text{O}_8\text{P}_2$ **REACH Registration No:** A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.**1.2. Relevant identified uses of the substance or mixture and uses advised against:****Recommended Use:** Laboratory chemicals, Manufacture of substances**1.3. Details of the supplier of the safety data sheet:**

- **Company** **Finar Limited**
184-186/P, Chacharwadi Vasna,
Sarkhej-Bavla Highway,
Ta.: Sanand, Dist.: Ahmedabad,
Email: info@finarchemicals.com
Web: www.finarchemicals.com
- **E-Mail Address** safety@finarchemicals.com; info@finarchemicals.com

1.4. Emergency Telephone Number:

- For Emergency contact on: +91 - 2717 - 616 717
- Registered office No: +91 - 79 - 40040085

SECTION 2: HAZARDS IDENTIFICATION

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2.1. Classification of the substance or mixture:

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2. Label Elements:

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.3. Other Hazards:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances: Tricalcium phosphate

3.2. Mixtures:

Component	CAS-No	EC-No.	Weight %
Tricalcium phosphate	7758-87-4	231-840-8	100

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures:

- If Ingestion**

Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.

- If Inhaled**

Remove to fresh air. Get medical attention immediately if symptoms occur.

- If Contact with skin**

Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately, if symptoms occur.

- In case of eye contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

4.2. Most important symptoms and effects, both acute and delayed:

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in

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section 11.

4.3. Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media:

Suitable Extinguishing Media- Use Water Spray, Foam, Carbon dioxide (CO2), Dry powder

Unsuitable Extinguishing Media- For this substance/mixture no limitations of extinguishing agents are given.

5.2. Special hazards arising from the substance or mixture:

Oxides of phosphorus

Calcium oxide

Not combustible.

Fire may cause evolution of: Oxides of phosphorus

Ambient fire may liberate hazardous vapours.

5.3. Advice for firefighters:

Special protective equipment for firefighters

In the event of fire, wear self-contained breathing apparatus.

5.4 Further Information:

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures:

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

6.2. Environmental precautions:

Do not let product enter drains.

6.3. Methods and material for containment and cleaning up:

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

6.4. Reference to other sections:

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For disposal see Sections 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.

7.2. Conditions for safe storage, including any incompatibilities:

Keep containers tightly closed in a dry and well-ventilated place.

hygroscopic Do not freeze.

7.3. Specific end use(s):

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters:

Ingredients with workplace control parameters

8.2. Exposure Controls:

- **Personal Protective Equipment:**

Eye & Face Protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Safety goggles

Hand Protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Full contact: -

Glove material: Nitrile Rubber

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Glove Thickness: 0.11 mm

Break Through Time: 480 min

Material tested:KCL 741 Dermatril® L

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Splash contact: -

Glove material: Nitrile Rubber

Glove Thickness: 0.11 mm

Break Through Time: 480 min

Material tested:KCL 741 Dermatril® L

Respiratory Protection-

required when dusts are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Recommended Filter type: Filter type P1

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer.

These measures have to be properly documented.

Environmental Exposure Controls

Do not let product enter drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties:

- **Appearance:** White
- **Physical State:** Solid
- **Odor:** Odorless
- **pH:** No data available
- **Melting Point:** 1670 °C

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- **Ignition Temperature:** No data available
- **Decomposition Temperature:** No data available
- **Vapor Pressure:** No data available
- **Relative Density:** 3.27 at 20.5 °C
- **Density:** No data available
- **Volatility:** No data available
- **Bulk Density:** ca.250 kg/m³
- **Odor Threshold:** No data available
- **Viscosity, dynamic:** No data available
- **Water/Oil Dist. Co eff.:** No data available
- **Partition coefficient: n-octanol/water:** No data available
- **Ionicity (in Water):** No data available
- **Boiling Point/Range:** No data available
- **Flash Point:** No data available
- **Specific Gravity:** 3.14
- **Water Solubility:** 7.7 g/l at 20 °C

9.2. Other information:**Molecular Formula:** Ca₃O₈P₂**Molecular Weight:** 310.20 g/mol**SECTION 10: STABILITY AND REACTIVITY****10.1. Reactivity: -**

No data available

10.2. Chemical stability: -

The product is chemically stable under standard ambient conditions (room temperature).

10.3. Possibility of hazardous reactions: -

No data available

10.4. Conditions to avoid: -

Incompatible products.

10.5. Incompatible materials: -

Strong oxidizing agents.

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10.6. Hazardous decomposition products: -

In the event of fire: see section 5

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Oral toxicity

LD50 Oral - Rat - > 5.000 mg/kg

Remarks: (External MSDS)

Acute Inhalation Toxicity

No information Available

Acute Dermal toxicity

LD50 Dermal - Rabbit - > 2.000 mg/kg

Remarks: (External MSDS)

Skin corrosion/irritation

No information Available

Serious eye damage/eye irritation

Eyes - Rabbit

Result: No eye irritation

(OECD Test Guideline 405)

Sensitisation

No information Available

Germ cell mutagenicity

Ames test

Result: negative

Remarks: (Lit.)

Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No information Available

Specific target organ toxicity - single exposure

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No information Available

Specific target organ toxicity - repeated exposure

No information Available

Aspiration hazard

No information Available

11.2 Further Information:

Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately.

Therapeutically used substance.

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity:

No information Available

12.2 Persistence and degradability:

The methods for determining biodegradability are not applicable to inorganic substances.

12.3 Bioaccumulate potential:

No information Available

12.4 Mobility in soil:

No information Available

12.5 Results of PBT and vPvB assessment:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects:

Depending on the concentration, phosphates may contribute to the eutrophication of water supplies.

No ecological problems are to be expected when the product is handled and used with due care and attention.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods:

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

SECTION 14: Transport information

	Land transport (ADR/RID)	Air transport (IATA)	Sea transport (IMDG)
14.1 UN number	Not classified as dangerous in the meaning of transport regulations.		
14.2 Proper shipping name	Not classified as dangerous in the meaning of transport regulations.		
14.3 Class	Not classified as dangerous in the meaning of transport regulations.		
14.4 Packing group	Not classified as dangerous in the meaning of transport regulations.		
14.5 Environmentally hazardous	Not classified as dangerous in the meaning of transport regulations.		
14.6 Special precautions for user	Not classified as dangerous in the meaning of transport regulations.		
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:			
Not relevant			

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

REACH - Restrictions on the manufacture, : Not applicable

placing on the market and use of certain

dangerous substances, preparations and articles

(Annex XVII)

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National legislation

Seveso III: Directive 2012/18/EU of the : Not applicable
 European Parliament and of the Council on the
 control of major-accident hazards involving
 dangerous substances.

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

SECTION 16: Other information

Training advice

Provide adequate information, instruction and training for operators.

References: Not available

Created: 17/03/2021

Disclaimer:

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