



SAFETY DATA SHEET

Revision Date 24-Dec-2021

Revision Number

1. Identification

Product Name Calcium Phosphate Tribasic/Tri Calcium Phosphate
Cat No. : C133-212; C133-500
Synonyms Calcium phosphate $\text{Ca}_3(\text{PO}_4)_2$; Tricalcium phosphate; Calcium phosphate, tribasic
Recommended Use Laboratory chemicals.
Uses advised against Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company

Sbf pharma
Block – 263/03, Santej – Vadasar Road,
B/H Kitchen Express,
Ta- Kalol, Dis – Gandhinagar,
Gujarat – 382721.

Emergency Telephone Number : +91 – 98795 22397
Website : www.sbfpharma.com
Email : info@sbpharma.com

2. Hazard(s) identification

Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements

None required

Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

Component	CAS No	Weight %
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Phosphoric acid, calcium salt (2:3)	7758-87-4	100
Hydroxylapatite (Ca ₅ (OH)(PO ₄) ₃)	1306-06-5	-
Calcium hydroxide phosphate (Ca ₅ (OH)(PO ₄) ₃)	12167-74-7	-

4. First-aid measures

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.
Most important symptoms and effects	None reasonably foreseeable.
Notes to Physician	Treat symptomatically

5. Fire-fighting measures

Unsuitable Extinguishing Media	No information available
Flash Point	Not applicable
Method -	No information available
Autoignition Temperature	No information available
Explosion Limits	
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical
Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products
None known.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
1	0	0	N/A

6. Accidental release measures

Personal Precautions	Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.
Environmental Precautions	Should not be released into the environment. See Section 12 for additional Ecological Information.
Methods for Containment and Clean Up	Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

7. Handling and storage

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

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

8. Exposure controls / personal protection

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures None under normal use conditions.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection No protective equipment is needed under normal use conditions.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Solid
Appearance	White
Odor	Odorless
Odor Threshold	No information available
pH	
Melting Point/Range	1670 °C / 3038 °F
Boiling Point/Range	No information available
Flash Point	Not applicable
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	3.14
Solubility	Insoluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	Ca5OH(PO4)3
Molecular Weight	502.31

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid	Incompatible products.
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Products	None under normal use conditions
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Phosphoric acid, calcium salt (2:3)	>5000 mg/kg (Rat)	>2000 mg/kg (Rabbit)	Not listed
Hydroxylapatite (Ca ₅ (OH)(PO ₄) ₃)	LD50 > 25350 mg/kg (Rat)	Not listed	Not listed
Calcium hydroxide phosphate (Ca ₅ (OH)(PO ₄) ₃)	Not listed	LD50 > 2000 mg/kg (Rabbit)	LC50 > 2.35 mg/L (Rat) 170 min

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Phosphoric acid, calcium salt (2:3)	7758-87-4	Not listed				
Hydroxylapatite (Ca ₅ (OH)(PO ₄) ₃)	1306-06-5	Not listed				
Calcium hydroxide phosphate (Ca ₅ (OH)(PO ₄) ₃)	12167-74-7	Not listed				

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known

STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects, both acute and delayed No information available

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

Do not empty into drains.

Persistence and Degradability Insoluble in water

Bioaccumulation/ Accumulation No information available.

Mobility Is not likely mobile in the environment due its low water solubility.

13. Disposal considerations

Waste Disposal 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.

14. Transport information

DOT Not regulated

TDG Not regulated

IATA Not regulated

IMDG/IMO Not regulated

15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Phosphoric acid, calcium salt (2:3)	7758-87-4	X	ACTIVE	-
Hydroxylapatite (Ca ₅ (OH)(PO ₄) ₃)	1306-06-5	X	ACTIVE	-
Calcium hydroxide phosphate (Ca ₅ (OH)(PO ₄) ₃)	12167-74-7	-	-	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Phosphoric acid, calcium salt (2:3)	7758-87-4	X	-	231-840-8	X	X	X	X	X	KE-34047
Hydroxylapatite (Ca ₅ (OH)(PO ₄) ₃)	1306-06-5	X	-	215-145-7	X	X	X	X	X	KE-20608
Calcium hydroxide phosphate (Ca ₅ (OH)(PO ₄) ₃)	12167-74-7	X	-	235-330-6	X	X	X	-	X	KE-04599

KECL - NIER number or KE number (<http://ncis.nier.go.kr/en/main.do>)

U.S. Federal Regulations

SARA 313 Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act) Not applicable

Clean Air Act Not applicable

OSHA - Occupational Safety and Health Administration Not applicable

CERCLA Not applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations Not applicable

U.S. Department of Transportation
Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Authorisation/Restrictions according to EU REACH

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

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Phosphoric acid, calcium salt (2:3)	7758-87-4	Listed	Not applicable	Not applicable	Not applicable
Hydroxylapatite (Ca ₅ (OH)(PO ₄) ₃)	1306-06-5	Listed	Not applicable	Not applicable	Not applicable
Calcium hydroxide phosphate (Ca ₅ (OH)(PO ₄) ₃)	12167-74-7	Not applicable	Not applicable	Not applicable	Not applicable

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Phosphoric acid, calcium salt (2:3)	7758-87-4	Not applicable	Not applicable	Not applicable	Not applicable
Hydroxylapatite (Ca ₅ (OH)(PO ₄) ₃)	1306-06-5	Not applicable	Not applicable	Not applicable	Not applicable
Calcium hydroxide phosphate (Ca ₅ (OH)(PO ₄) ₃)	12167-74-7	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information

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Revision Date 24-Dec-2021
Print Date 24-Dec-2021

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS

