Safety Data Sheet (SDS) for P3D Scaffolds

Revision 1.1
Revised 2021.12.08
Ossiform ApS

1. Identification of Product and Company

1.1 Product Identifier

Product identifier	Ossiform Research Line - P3D Scaffolds (TCP)
Tradename of mixture	β-tricalcium phosphate
Trademark	We Print Bone™

1.2 Identified Product Use

Used as a scaffold for pre-clinical in vitro and in vivo research studies within tissue engineering, cell culture, microbial culture, bone grafts, disease modeling, therapy testing, and for relevant research and development purposes. Not certified for use in humans.

1.3 Supplier Details

Company name:	Ossiform ApS
Company address:	Oslogade 1, 5000 Odense, Denmark
Telephone number:	+45 5360 0670
E-mail:	research@ossiform.com

1.4 Emergency Telephone Number

Telephone number in case of emergency	+45 5360 0670

2. Hazards Identification

2.1 Classification of Mixture	Non-hazardous
2.2 Label elements	Not a hazardous mixture
2.3 Other hazards	The mixture contains no known hazards.

3. Composition and Information of Ingredients

Name	CAS no.	Content	Classification
β-tricalcium phosphate ≥96%	7758-87-4	100%	None/insubstantial documentation

4. First Aid Measures

4.1 Oral exposure	If swallowed, immediately wash out mouth thoroughly with water. Further drink water if person is conscious. If unconscious, do not give any form of liquids by mouth and do not trigger vomiting.
4.2 Inhalation exposure	If discomfort occur from inhalation, remove person to fresh air.
4.3 Dermal exposure	If discomfort occur from dermal exposure, immediately wash skin thoroughly with water.
4.4 Eye exposure	In case of discomfort from contact with eyes, immediately wash with water. Remove contact lenses.
4.5 Description of most important symptoms, acute or delayed symptoms and effects	No known symptoms, acute or delayed symptoms or effects, but may cause skin, mouth, and eye irritation.
4.6 Recommendations for immediate medical care and special treatment, when necessary	No data available

5. Fire-Fighting Measures

5.1 Fire-fighting aids	Not relevant. The mixture cannot burn and decomposes with heating.
5.2 Special hazards potentially arising	Calcium oxide and phosphor oxides.
5.3 Advice for Fire Fighters	Protective clothing.

6. Accidental prevention measures

6.1 Personal precautions during use	Avoid breathing vapors, dust accumulation and spillages. Ensure proper process ventilation.
6.2 Environmental precautions	Wear safety gloves and personal protection as needed. Ensure access to eye-wash bottles and hand-washing equipment.
6.3 Containment and cleaning	Wipe up spillages with a moisturized cloth. Cloth and spillage are disposed of as contaminated waste in a secure container.

7. Handling and Storage

7.1 Precautions for safe handling	Avoid direct contact with eyes, skin, or clothing.
7.2 Safe storage conditions and incompatibilities	Keep the product tightly sealed.

8. Personal Protection and Exposure Control

8.1 Control parameters/exposure limit values	No data available.

8.2 Exposure controls:

Respiratory Equipment	Approved respirator if warrant.
Hand Protection	Chemically resistant gloves.
Skin Protection	Wash hands thoroughly after handling.
Eye Protection	Safety glasses as needed.
Face Protection	Face protection as needed.
Protective Clothing	Laboratory coat.

9. Physical and Chemical Properties

Appearance	Implant. Porous chemical composition. White, crystalline powder.
Color	Colorless
Odor	Odorless
Solubility	0.1 g/L (water)
Boiling Point	Undetermined
Melting Point	1670°C
Relative Density	3,14 g/cm^3
pH	Undetermined
Flash Point	Undetermined
Evaporation Rate	Undetermined
Flammability	Undetermined
Upper Flammability or Explosive Limits	Undetermined
Lower Flammability or Explosive Limits	Undetermined
Vapor Pressure	Undetermined
Vapor Density	Undetermined
Partition co-efficient: n-octanol/water	Undetermined
Auto-ignition Temperature	Undetermined
Decomposition Temperatures	Undetermined
Viscosity	Undetermined

10. Stability and Reactivity

10.1 Reactivity	Incompatible with i.a., strongly oxidizing substances

10.2 Chemical Stability	No data available
10.3 Possibility of Hazardous Reactions	No data available
10.4 Conditions to Avoid	No data available
10.5 Incompatible Materials	No data available
10.6 Hazardous Decomposition Products	No data available

11. Toxicological Information

Acute Toxicity	No data available
Serious Eye Damage Irritation	No data available
Skin Corrosion/irritation	May cause skin irritation.
Respiratory or Skin Sensitization	No data available
STOT Repeated Exposure	No data available
Carcinogenicity	No data available
Germ Cell Mutagenicity	No data available
Reproductive Toxicity	No data available
Aspiration Hazard	No data available
International Agency for Research on Cancer (IARC)	No data available
National Toxicology Program (NTP)	No data available

12. Ecological Information

12.1 Toxicity	No data available
12.2 Persistence and Degradability	No data available
12.3 Bio Accumulative Potential	No data available
12.4 Mobility in Soil	No data available
12.5 Result of PBT and vPvB Assessment	No data available
12.6 Other Adverse Effects	No data available

13. Disposal Considerations

13.1 Waste Treatment	The material composition must be disposed of in accordance with the local, state, municipal, provincial, and federal regulations currently valid in the specific area.

14. Transport Considerations

14.1 UN Proper Shipping Name	N/A
14.2 Non-hazardous For Air Transport Per IATA	The mixture is considered to be non-hazardous for and during transport.

15. Regulatory Information

15.1 Safety, health, and environmental regulations/legislation specific for the mixture	No current regulatory information available for the material composition.