

## 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 | $\beta$ -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                   |
|---|-----------|---------|----------------------------------|
| $\beta$ -tricalcium phosphate $\geq 96\%$ | 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.<br>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 <sup>3</sup>  |
| 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. |
|---|---|