

# PCL filament filled with 30% hydroxyapatite

## Safety Data Sheet

in accordance with Regulation (EC) No 1907/2006 (REACH) as amended by Regulation (EU) 2020/878  
Date of issue: 26/01/2026 Version: 1.0

### SECTION 1: Identification of the substance/mixture and the company/company

#### 1.1. Product Identifier

Product Shape : Mixing  
Name : PCL filament filled with 30% hydroxyapatite  
Product Group : Finished product

#### 1.2. Relevant identified uses of the substance or mixture and discouraged uses

##### Relevant Identified Uses

Use of the substance/mixture : 3D Printing Application

#### 1.3. Information on the supplier of the safety data sheet

Lattice Medical  
80, rue du Docteur Yersin  
P.O. Box 59120 LOOS  
FRANCE  
T +33 6 73 59 08 71  
[contact@lattice-services.com](mailto:contact@lattice-services.com)

#### 1.4. Emergency number

Country/Region	Organization/Society	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital Msida MSD 2090 Msida	+356 2545 6508	

### SECTION 2: Hazard identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008 [CLP]

Uncategorized

##### Adverse physicochemical effects on human health and the environment

To the best of our knowledge, this product does not present any particular danger under normal conditions of use.

#### 2.2. Labelling elements

##### Labelling according to Regulation (EC) No 1272/2008 [CLP]

Labelling not applicable

#### 2.3. Other hazards

To the best of our knowledge, does not contain PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with Annex XIII of the REACH Regulation

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To the best of our knowledge, the mixture does not contain substances included in the list established in accordance with Article 59(1) of REACH as having endocrine disrupting properties, or is not recognised as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

### SECTION 3: Composition/Component Information

#### 3.2. Mixtures

This mixture does not contain any substances to be reported according to the criteria of section 3.2 of Annex II of REACH

### SECTION 4: First aid

#### 4.1. Description of first aid measures

Post-inhalation first aid	: Remove the subject from the contaminated area and bring it to fresh air. If symptoms persist, call a doctor.
First aid after skin contact	: Wash with soap and water as a precaution. In case of redness or irritation, call a doctor.
First aid after eye contact	: Rinse carefully with water for several minutes. Remove contact lenses if the victim wears them and if they can be easily removed. Continue to rinse. Consult an ophthalmologist if necessary.
First aid after ingestion	: Rinse mouth with water. Do not give anything to drink to an unconscious subject. Do not induce vomiting. If you feel unwell, consult a doctor.

#### 4.2. Main symptoms and effects, acute and delayed

Symptoms/Effects	: None known.
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#### 4.3. Indication of any immediate medical care and special treatment required

Symptomatic treatment.

### HEADING 5: Fire-fighting measures

#### 5.1. Extinguishing means

Appropriate extinguishing means	: Foam. Carbon dioxide (CO <sub>2</sub> ). Water sprayed.
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#### 5.2. Specific hazards resulting from the substance or mixture

Hazardous decomposition products in the event of fire	: Carbon oxides (CO, CO <sub>2</sub> ).
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#### 5.3. Advice to firefighters

Firefighting Instructions	: Cool containers exposed to heat with spray water. Contain and contain extinguishing fluids.
Fire protection	: Do not intervene without suitable protective equipment. Protective device self-contained breathing system. Full body protection.

### SECTION 6: Measures to be taken in the event of accidental dispersal

#### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General measures	: Ensure proper ventilation.
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##### For non-rescuers

Emergency procedures	: Have the danger zone evacuated. Do not touch or walk on spilled product. Avoid contact with eyes, skin, or clothing. Ruling out any possible source of ignition.
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### For first responders

Protective equipment : Do not intervene without suitable protective equipment. For more information, please contact:  
See section 8: "Exposure control-personal protection".

### 6.2. Precautions for the protection of the environment

Contain and contain the spill. Do not discharge into sewers and rivers.

### 6.3. Containment and Clean-up Methods and Equipment

For retention : Sweep or shovel the spilled product and put it in a suitable container for elimination.  
Cleaning processes : Wash the non-recoverable residue with plenty of water.  
Other information : Dispose of solid materials or residues in a licensed centre.

### 6.4. Reference to other headings

See section 13 for the disposal of waste resulting from cleaning.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Handle in accordance with good industrial hygiene and safety practices. Ensure adequate ventilation. Avoid contact with skin, eyes, or clothing.  
Keep away from sources of ignition.  
Hygiene measures : Do not drink, eat or smoke in the workplace. Wash your hands after any manipulation.

### 7.2. Conditions for safe storage, including possible incompatibilities

Storage conditions : Store in a dry, cool, well-ventilated place. Keep the container tightly closed.  
Store under inert gas. Protect from moisture. Keep away from sources of ignition.  
Incompatible materials : Water, humidity.

### 7.3. Specific end-use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control Parameters

No additional information available

### 8.2. Exposure controls

#### Appropriate technical controls

##### Appropriate technical controls:

Ensure good ventilation of the workstation.

#### Personal protective equipment Eye and face

##### protection

##### Eye protection:

Not required under normal conditions of employment. In case of splash hazard: Safety glasses with side protectors

##### Skin protection

##### Skin and body protection:

Wear appropriate protective clothing

##### Hand protection:

Not required under normal conditions of employment. In case of splash hazard: Chemical-resistant gloves (according to the NF EN 374 or equivalent)

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### Respiratory protection

#### Respiratory protection:

If there is insufficient ventilation, wear an appropriate breathing apparatus

### Exposure controls related to environmental protection

#### Exposure controls related to environmental protection:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on essential physical and chemical properties

Physical condition	: Solid
Color	: White.
Appearance	: filaments.
Smell	: odorless.
Olfactory threshold	: Not available
Melting Point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not available
Lower Explosion Limit	: Not applicable
Upper Explosion Limit	: Not applicable
Flash Point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition Temperature	: Not available
pH	: Not available
pH solution	: Not available
Viscosity, kinematics	: Not applicable
Solubility in water	: Hydrolysis
Solubility (other)	: Dimethylformamide: Soluble Dioxane: Soluble Dimethyl sulfoxide: Soluble
n-octanol/water partition coefficient (Log Kow)	: Not available
Steam pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: Not available
Relative vapour density at 20°C	: Not applicable
Size of a particle	: Not available

### 9.2. Other information

No additional information available

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### SECTION 10: Stability and responsiveness

#### 10.1. Responsiveness

To the best of our knowledge, this product does not present any particular danger under normal conditions of use.

#### 10.2. Chemical stability

Stable at room temperature and under normal conditions of use.

#### 10.3. Potential for Hazardous Reactions

No known hazardous reactions under normal conditions of use.

#### 10.4. Conditions to be avoided

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

Water, humidity.

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### 10.6. Hazardous decomposition products

No hazardous decomposition products should be generated under normal storage and use.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute (oral) toxicity	: Not ranked (Based on the available data, the classification criteria are not met)
Acute (dermal) toxicity	: Unclassified (Based on the available data, the classification criteria are not completed)
Acute Toxicity (Inhalation)	: Unclassified (Based on the available data, the classification criteria are not completed)
Skin corrosion/skin irritation	: Unclassified (Based on the available data, the classification criteria are not completed)
Severe eye damage/eye irritation	: Unclassified (Based on the available data, the classification criteria are not completed)
Respiratory or skin sensitization	: Unclassified (Based on the available data, the classification criteria are not completed)
Germ cell mutagenicity	: Unclassified (Based on the available data, the classification criteria are not completed)
Carcinogenicity	: Not ranked (Based on the available data, the classification criteria are not met)
Reproductive toxicity	: Unclassified (Based on the available data, the classification criteria are not completed)
Specific Specific Target Organ Toxicity (STOT) (Single Exposure)	: Not ranked (Based on the available data, the classification criteria are not met)
Specific target organ toxicity (STOT) (repeated exposure)	: Not ranked (Based on the available data, the classification criteria are not met)
Aspiration Hazard	: Not ranked (Based on the available data, the classification criteria are not met)

### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Short-term aquatic hazards (high)	: Not Ranked (Based on the available data, the classification criteria are not completed)
Long-term hazards to the aquatic environment (column)	: Not Ranked (Based on the available data, the classification criteria are not completed)

### 12.2. Persistence and Degradability

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Persistence and degradability	No information available.
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### 12.3. Potential for bioaccumulation

No additional information available

### 12.4. Mobility in Soil

No additional information available

### 12.5. Results of PBT and vPvB assessments

No additional information available

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### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal Considerations

### 13.1. Waste treatment methods

Waste treatment methods	: Dispose of in accordance with applicable local regulations.
Recommendations for the treatment of Product/Packaging	: Do not reuse empty containers.
Additional information	: The user's attention is drawn to the possible existence of legislative provisions, specific regulatory and administrative measures, whether Community, national or local, relating to disposal.

## SECTION 14: Transport information

In compliance with: ADR / IMDG / IATA / DNA / RID

ADR	IMDG	IATA	DNA	RID
<b>14.1. UN Number or Identification Number</b>				
Not regulated for transport				
<b>14.2. UN Proper Shipping Name</b>				
Unregulated	Unregulated	Unregulated	Unregulated	Unregulated
<b>14.3. Transport hazard class(es)</b>				
Unregulated	Unregulated	Unregulated	Unregulated	Unregulated
<b>14.4. Packing Group</b>				
Unregulated	Unregulated	Unregulated	Unregulated	Unregulated
<b>14.5. Ecological hazards</b>				
Unregulated	Unregulated	Unregulated	Unregulated	Unregulated

### 14.6. Special precautions to be taken by the user

#### Ground transportation

Unregulated

#### Shipping

Unregulated

#### Air transport

Unregulated

#### Inland waterway transport

Unregulated

#### Rail transport

Unregulated

### 14.7. Bulk shipping in accordance with IMO instruments

Not applicable

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### SECTION 15: Regulatory information

#### 15.1. Substance- or mixture-specific safety, health and environmental regulations/legislation

##### EU regulations

###### Annex XVII of REACH (Restriction List)

Does not contain substance(s) listed in Annex XVII of REACH (Conditions of restriction)

###### Annex XIV of REACH (Authorisation List)

Does not contain substance(s) listed in Annex XIV of REACH (Authorisation List)

###### REACH Candidate List (SVHC)

Does not contain substance(s) listed in the REACH Candidate List

###### PIC Regulation (EU 649/2012, Prior Informed Consent)

Does not contain substance(s) listed in the PIC list (EU Regulation 649/2012 on the export and import of dangerous chemicals)

###### POPs Regulation (EU 2019/1021, persistent organic pollutants)

Does not contain substance(s) listed in the POPs list (EU Regulation 2019/1021 on persistent organic pollutants)

###### Ozone Depletion Regulation (EU 1005/2009)

Does not contain any substances subject to Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.

###### Dual-Use Regulation (428/2009)

Does not contain any substance subject to COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items

###### Regulation on explosives precursors (EU 2019/1148)

Does not contain substance(s) listed in the list of explosives precursors (EU Regulation 2019/1148 on the marketing and use of explosives precursors)

###### Regulation on Drug Precursors (EC 273/2004)

Does not contain substance(s) listed in the list of drug precursors (EC Regulation 273/2004 on the manufacture and placing on the market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

### SECTION 16: Other information

Abbreviations and acronyms:	
DNA	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
AQHI	Chemical Abstracts Service (division of the American Chemical Society)
CLP	Classification, Labelling and Packaging Regulations; Regulation (EC) No 1272/2008
ECHA	ECHA - European Chemicals Agency
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods Code
PBT	Persistent, bioaccumulative and toxic
REACH	Registration, evaluation, authorisation and restriction of chemicals. Regulation (EU) REACH No 1907/2006
RID	International Regulations Concerning the Transport of Dangerous Goods by Rail



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### Abbreviations and acronyms:

vPvB	Highly persistent and highly bioaccumulative
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Data sources : ECHA - European Chemicals Agency. SDSs from suppliers.

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and describes the product for health, safety and environmental purposes only. They should therefore not be interpreted as guaranteeing any specific property of the product.