



**Safety Data Sheet**  
 according to Regulation (EC) No 1907/2006 (REACH),  
 GHS Rev 04 (2011): US, OSHA, CMA, ANSI

**VisiJet® PXL Core**

Revision Date: 22 March, 2013

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

**1.1 Identification of the substance or preparation: VisiJet® PXL Core**

**1.2 Use of the substance / preparation:** For use with ZPrinter® 3D inkjet printers

**1.3 Company/undertaking identification:**

3D Systems, Inc.  
 333 Three D Systems Circle  
 Rock Hill, South Carolina U.S.A.  
 Phone: 803.326.3900 or  
 Toll-free Phone: 800.793.3669  
 800.424.9300 - Chemtrec

3D Systems Europe Ltd.  
 Mark House, Mark Road  
 Hemel Hempstead  
 Herts HP2 7  
 United Kingdom  
 Phone: +44 144-2282600  
 703.527.3887 - Chemtrec (U.S.)

**2. HAZARDS IDENTIFICATION**

**2.1 Classification:**

**Not classified according to GHS, Regulation (EC) No. 1272/2008, HazCom 2012.**

**2.2 Label Elements**

**Regulation (EC) No, 1272/2008:**

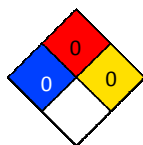
**Hazard pictograms and signal word: None**

**Hazard statements: None**

**Precautionary statements:**

When mixed with water, this material hardens. **DO NOT** attempt to make a cast enclosing any part of the body using this material.

P232: Protect from moisture  
 P402: Store in a dry place



NFPA Ratings  
 0 = Minimal  
 1 = Slight  
 2 = Moderate  
 3 = Serious  
 4 = Severe

**Hazardous Materials Identification System**

**(HMIS):**

(Degree of hazard: 0 = low, 4 = extreme);

Health 0  
 Flammability 0  
 Physical Hazards 0

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1 Preparation related information**

**Description:** Mixture

**3.2 Hazard ingredients:**

Chemical name	CAS-No	EC-No	%	Classification	
				Regulation (EC) 1272/2008	Regulation 67/548/EEC, 1999/45/EC
Calcium sulfate hemihydrate	10034-76-1	231-900-3	80-90		



**Safety Data Sheet**  
according to Regulation (EC) No 1907/2006 (REACH),  
GHS Rev 04 (2011): US, OSHA, CMA, ANSI

**VisiJet® PXL Core**

Revision Date: 22 March, 2013

---

**4. FIRST AID MEASURES**

**4.1 In case of inhalation:** Move affected person to fresh air. If respiratory irritation occurs, seek medical attention immediately.

**4.2 In case of skin contact:** Flush skin with plenty of soap and water.

**4.3 In case of eye contact:** Flush eyes with plenty of water.

**4.4 In case of ingestion:** If ingested, drink plenty of water. Do not induce vomiting.

---

**5. FIRE-FIGHTING MEASURES**

**5.1. Suitable extinguishing media:** Water mist, dry chemical, carbon dioxide, or appropriate foam.

**5.2. Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:** Thermal decomposition products can include sulphur oxides, calcium oxide, CO<sub>2</sub> and CO.

---

**6. ACCIDENTAL RELEASE MEASURES**

**6.1. Personal precautions:** Avoid dust formation. Do not breathe vapors/mist/gas.

**6.2. Environmental precautions:** Avoid discharge to sewer system.

**6.3. Methods for cleaning up:** Sweep up. Place all waste in an appropriate container for disposal.

---

**7. HANDLING AND STORAGE**

**7.1 Handling:** Provide adequate ventilation during dust formation.

**7.2 Storage:** Store sealed in the original container at room temperature. Keep this material in a cool, dry, well-ventilated place.

---

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**8.1 Exposure limit values:**

General Product Information: No occupational exposure limits (PEL/TWA) have been established for this product.  
Component Analysis:

Component	Component Manufacturer IEL (Internal Exposure Limit)
Calcium sulphate hemihydrate	6mg/m <sup>3</sup>

**8.2 Exposure controls**

**Technical measures to prevent exposure:** Use local exhaust ventilation.

**Instructual measures to prevent exposure:** When using, do not eat, drink or smoke. Wash hands after handling and before eating, smoking and using the lavatory and at the end of the day.

**Personal protection equipment:**

**Hand protection:** Use impervious nitrile gloves.

**Eye protection:** Wear safety glasses or chemical goggles.

**Body protection:** Use apron and closed shoes.



# Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH),  
GHS Rev 04 (2011): US, OSHA, CMA, ANSI

## VisiJet® PXL Core

Revision Date: 22 March, 2013

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Appearance:

**Physical state:** Powder

**Color:** white

**Odor:** mild

#### 9.2 Important health, safety and environmental information

<b>pH (20 °C):</b>	NA
<b>Melting point/range (°C):</b>	1450°C
<b>Boiling point/range (°C):</b>	NA
<b>Flash point (°C):</b>	NA
<b>Ignition temperature (°C):</b>	NA
<b>Vapour pressure (°C):</b>	NA
<b>Density (g/cm<sup>3</sup>):</b>	2.6-2.7
<b>Bulk density (kg/m<sup>3</sup>):</b>	NA
<b>Water solubility (20 °C in g/l):</b>	0.83% (3°C)
<b>Viscosity, dynamic (mPa s):</b>	NA
<b>Dust explosion hazard:</b>	NA
<b>Explosion limits:</b>	NA

### 10. STABILITY AND REACTIVITY

**10.1 Conditions to avoid:** Avoid wet/humid environment. Avoid dust formation.

**10.2 Materials to avoid:** Oxidizing materials, acids, strong bases, water, high humidity.

**10.3 Hazardous decomposition products:** Sulphur oxides, calcium oxide, carbon dioxide and carbon monoxide can be released at high temperatures or upon burning.

### 11. TOXICOLOGICAL INFORMATION

**11.1 Toxicokinetics, metabolism and distribution:** NA

**11.2 Acute effects (toxicity tests)**

Component	LD <sub>50</sub> Oral	LD <sub>50</sub> Dermal
Calcium sulphate hemihydrate	> 5000mg/kg (rats)	NA

#### 11.3 General remarks:

Carcinogenicity: None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

### 12. Ecological information

**12.1 Ecotoxicity:** The aquatic toxicity of the product is unknown. No data are available for the components of this product.

**12.2 Mobility:** No information available for product.

**12.3 Persistence and degradability:** No information available for product.

**12.4 Results of PBT assessment:** No information available for product

**12.5 Other adverse effects:** No information available for product



# Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH),  
GHS Rev 04 (2011): US, OSHA, CMA, ANSI

## VisiJet® PXL Core

Revision Date: 22 March, 2013

---

### 13. DISPOSAL CONSIDERATIONS

**Appropriate disposal / Product:** Reduce waste by attempting to utilize product completely. Dispose of this container and its contents in accordance with all local, state, and federal regulations.

---

### 14. TRANSPORT INFORMATION

**14.1 Land transport (ADR/RID/GGVSE):** Not regulated

**14.2 Sea transport (IMDG-Code/GGVSee):** Not regulated

**14.3 Air transport (ICAO-IATA/DGR):** Not regulated

---

### 15. REGULATORY INFORMATION

#### 15.1 EU regulations

EINEC/ELINCS/NLP: All materials are listed  
REACH Annex XVII: None listed

#### 15.2. US FEDERAL

TSCA: All materials are listed on the TSCA Inventory or are not subject to TSCA requirements:  
California Proposition 65: This product does not contain chemicals which are known to the state of California to cause cancer, birth, or any other reproductive defects.

---

### 16. OTHER INFORMATION

SDS Creation Date: ..... March 22, 2013  
SDS Revision #: ..... A  
SDS Revision Date: ..... NA  
Reason for Revision: ..... Release

[www.3dsystems.com](http://www.3dsystems.com)

800.793.3669 (Toll-free in the US GMT-07:00; N. America, Mon – Fri, 6:00 a.m. to 6 p.m.)

803.326.3900 (Outside the U.S. GMT-07:00; N. America, Mon – Fri, 6:00 a.m. to 6 p.m.)

+44 144-2282600 (Europe GMT+01:00; Mon – Fri, 08:00 a.m. - 17:00 p.m. MEZ)

DISCLAIMER OF LIABILITY: The following supersedes any related provision in your company's forms, letters, and agreements from, by or with 3D Systems Corporation. 3D Systems, Inc. makes no warranty whether expressed or implied, including warranties of merchantability or of fitness for a particular purpose for this product. No statements or recommendations contained in the product literature are to be construed as inducements to infringe any relevant patent now or hereafter in existence. Under no circumstances shall 3D Systems, Inc. be liable for incidental, consequential, or other damages from alleged negligence, breach of warranty, strict liability or any other theory, arising out of the use or handling of this product. The sole liability of 3D Systems, Inc. for any claims arising out of the manufacture, use or sale of its products shall be for the buyer's purchase price.

The contents of this safety data sheet are subject to change without notice. 3D Systems, Inc. recommends that you periodically check [www.3dsystems.com](http://www.3dsystems.com) to make sure you are using the most current safety data sheet.

© Copyright 2013 by 3D Systems, Inc. All rights reserved. The 3D logo, VisiJet and ZPrinter are registered trademarks of 3D Systems, Inc.