



**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.

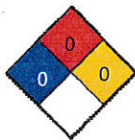
**2.2 Label Elements**  
 Regulation (EC) No, 1272/2008:

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		



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**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.

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**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.

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**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.

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**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.

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**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.

**Instructional 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.



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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Appearance:

**Physical state:** Powder  
Color: white  
Odor: mild

### 9.2 Important health, safety and environmental information

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





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### 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.

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### 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

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### 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.

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### 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)

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